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**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/519,121✓
	Filing Date	December 23, 2004
	First Named Inventor	Marc K. HELLERSTEIN
	Art Unit	Not Yet Assigned
	Examiner Name	Not Yet Assigned
Total Number of Pages in This Submission	14 + 115 refs	Attorney Docket Number 416272003900

ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
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<input checked="" type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	* Form PTO/SB/08a/b (10 pages)
<input checked="" type="checkbox"/> Information Disclosure Statement (3 pages)	<input type="checkbox"/> CD, Number of CD(s) _____	* One Copy of each non-US reference (115 references)
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	MORRISON & FOERSTER LLP (Customer No.: 20872)		
Signature			
Printed name	Michael R. Ward		
Date	March 11, 2005	Reg. No.	38,651

EV493110316US

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March 11, 2005

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(Christa Carter)

PATENT
Docket No. 416272003900
B04-107

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Marc K. HELLERSTEIN

Serial No.: 10/519,121

Filing Date: December 23, 2004

For: METHODS FOR MEASURING RATES
OF REVERSE CHOLESTEROL
TRANSPORT IN VIVO, AS AN INDEX
OF ANTI-ATHEROGENESIS

Examiner: Not Yet Assigned

Group Art Unit: Not Yet Assigned

INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98.

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO/SB/08a/b. Copies of the documents are also submitted herewith. The Examiner is requested to make these documents of record.

This Information Disclosure Statement is submitted:

- ☐ With the application; accordingly, no fee or separate requirements are required.
- ☐ Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114. However, if applicable, a certification under 37 C.F.R. § 1.97 (e)(1) has been provided.
- ☒ Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required. However, if applicable, a certification under 37 C.F.R. § 1.97 (e)(1) has been provided.
- ☐ After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.
 - ☐ A fee is required. A check in the amount of ___ is enclosed.
 - ☐ A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided above; accordingly; no fee is believed to be due.
- ☐ After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided above and a check in the amount of ___ is enclosed.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided above and a Fee Transmittal form (PTO/SB/17 is attached to this submission in duplicate.)

Applicants would appreciate the Examiner initialing and returning the Form PTO/SB/08a/b, indicating that the information has been considered and made of record herein.

The information contained in this Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist;

(iii) the information, protocols, results and the like reported by third parties are accurate or enabling;
or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the transmittal form is separated from this document and the Patent Office determines that an extension and/or other relief (such as payment of a fee under 37 C.F.R. § 1.17 (p)) is required, Applicants petitions for any required relief including extensions of time and authorize the Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to Deposit Account No. 03-1952 referencing (416272003900). However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: 3/11/05

Respectfully submitted,

By Michael R. Ward
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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
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				Filing Date	December 23, 2004
				First Named Inventor	Marc K. HELLERSTEIN
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	1	of	10	Attorney Docket Number	416272003900

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	1.	US-5,338,686	08-16-1994	Hellerstein	
	2.	US-5,910,403	06-08-1999	Hellerstein	
	3.	US-6,010,846	01-04-2000	Hellerstein	
	4.	US-6,461,806	10-08-2002	Hellerstein	
	5.	US-6,653,090-B1	11-25-2003	Lopaschuk	
	6.	US-6,602,715-B2	08-05-2003	Yatscoff et al.	
	7.	US-6,599,750-B2	07-29-2003	Yatscoff et al.	
	8.	US-6,468,802-B1	10-22-2002	Yatscoff et al.	
	9.	US-6,461,870-B2	10-08-2002	Yatscoff et al.	
	10.	US-20030068634-A1	05-24-2002	Hellerstein	
	11.	US-20030133871-A1	10-23-2002	Hellerstein	
	12.	US-20030224420-A1	04-04-2003	Hellerstein	
	13.	US-20040115131-A1	06-17-2004	Hellerstein	
	14.	US-5,961,470	10-05-1999	Wagner et al.	
	15.	US-20030228259-A1	12-11-2003	Hellerstein	
	16.	US-20040081994-A1	04-29-2004	Hellerstein	
	17.	US-10/944,154		Hellerstein	
	18.	US-10/963,967		Hellerstein	
	19.	US-10/872,280		Hellerstein	
	20.	US-10/997,323		Hellerstein	
	21.	US-6,808,875	10-26-2004	Hellerstein	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			
	22.	WO-WO 98/51820	11-19-1998		

*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	23.	International Search Report mailed August 18, 2004, for PCT application PCT/US03/23340, filed July 25, 2003, 2004: 4 pages	

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sf-1840868



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24.	International Search Report mailed on April 13, 2004, for PCT application no. PCT/US03/20052 filed on June 25, 2003, 3 pages
25.	International Search Report mailed on August 18, 2004, for PCT application PCT/US03/29526, filed September 16, 2003, 3 pages
26.	International Search Report mailed on January 19, 2005, for PCT patent application no. PCT/US03/29361 filed on September 15, 2003, 4 pages
27.	International Search Report mailed on July 9, 2004, for PCT patent application no. PCT/US03/35107 filed on November 4, 2003, 2 pages
28.	International Search Report mailed on June 29, 2004, for PCT patent application no. PCT/US03/04183 filed on February 12, 2003, 4 pages
29.	AIRHART, J. et al. (1974) "Compartmentation of Free Amino Acids for Protein Synthesis in Rat Liver" <i>Biochem J.</i> 140: 539-545
30.	AJIE, H.O. et al. (1995) "In Vivo Study of the Biosynthesis of Long-Chain Fatty Acids Using Deuterated Water" <i>Am. J. Physiol.</i> 269: E247-E252
31.	ANTELO, Fernando et al. (2002) "Adipose Triglyceride (TG) Turnover and De Novo Lipogenesis (DNL) in Humans: Measurement by Long-Term ² H ₂ O Labeling and Mass Isotopomer Distribution Analysis (MIDA)" <i>Experimental Biology</i> 16 [Meeting Abstract 361.10]: A400
32.	ATTARDI, Giuseppe et al. (1988) "Biogenesis of Mitochondria." <i>Ann. Rev. Cell Biol.</i> 4:289-333
33.	BACH, Simon P. et al. (2000) "Stem Cells: The Intestinal Stem as a Paradigm" <i>Carcinogenesis</i> 21(3): 469-476
34.	BANDSMA, Robert H.J. et al. (1998) "Contribution of Newly Synthesized Cholesterol to Rat Plasma and Bile Determined by Mass Isotopomer Distribution Analysis: Bile-Salt Flux Promotes Secretion of Newly Synthesized Cholesterol into Bile" <i>Biochem. J.</i> 329: 699-703
35.	BANDSMA, Robert H.J. et al. (2000) "The Contribution of Newly Synthesized Cholesterol to Bile Salt Synthesis in Rats Quantified By Mass Isotopomer Distribution Analysis" <i>Biochemica et Biophysica Acta</i> 1483: 343-351
36.	BERTANI, Roberta et al. (January 2002) "Measurement of Total Body Water (TBW) Through In Vivo Dilution of Tracer Compounds: Use of D ₂ O and its Determination by FT Infrared Spectroscopy" <i>Annali di Chimica</i> 92:135-138
37.	BICKENBACH, J.R. (1981) "Identification and Behavior of Label-Retaining Cells in Oral Mucosa and Skin" <i>J Dent Res</i> 1611-1620
38.	BIER, D.M. (1997) "Stable Isotopes in Biosciences, Their Measurement and Models for Amino Acid Metabolism" <i>Eur J Pediatr</i> 156 [Supp. 1]: S2-S8
39.	BINGHAM, S.A. (January 1994) "The Use of 24-h Urine Samples and Energy Expenditure to Validate Dietary Assessments" <i>American Journal of</i>

Examiner Signature		Date Considered	
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Sheet	3	of	10	Attorney Docket Number	416272003900

		<i>Clinical Nutrition</i> 59 [1 Supp.]: 227S-231S	
40.		BLAIR, Steven N. et al. (1995) "Changes in Physical Fitness and All-Cause Mortality: A Prospective Study of Healthy and Unhealthy Men." <i>JAMA</i> 273(14): 1093-1098	
41.		BONOTTO, S. et al. (1977) "Study of the Distribution and Biological Effects of 3H in the Algae <i>Acetabularia</i> , <i>Chlamydomonas</i> and <i>Porphyra</i> " <i>Current Topics in Radiation Quarterly</i> 12: 115-132	
42.		BRAVO, Elena et al. (1994) "Decreased Hepatic Uptake and Processing of High Density Lipoprotein Unesterified Cholesterol and Cholesteryl Ester with Age in the Rat" <i>J. Biochem.</i> 116: 1088-1095	
43.		BROWN, Alan S. et al (1998) "Treating Patients with Documented Atherosclerosis to National Cholesterol Education Program-Recommended Low-Density-Lipoprotein Cholesterol Goals with Atorvastatin, Fluvastatin, Lovastatin and Simvastatin" <i>J. Am. Coll. Cardiol.</i> 32: 665-672	
44.		CHINKES, David L. et al. (1996) "Comparison of Mass Isotopomer Dilution Methods Used to Calculate VLDL Production in Vivo" <i>Am. J. Physiol.</i> 271 (Endocrinol. Metab. 34): E373-E383	
45.		CHRISTIANSEN Mark P. et al. (October 2000) "Effect of Dietary Energy Restriction on Glucose Production and Substrate Utilization in Type 2 Diabetes" <i>Diabetes</i> 49: 1691-1699	
46.		CLAYTON, David (1991) "Replication and Transcription of Vertebrate Mitochondrial DNA" <i>Annu. Rev. Cell Biol.</i> 7:453-478	
47.		CONRADTS, Thomas P. et al. (January 2002) "Stable Isotope Labeling in Proteomics" <i>The Synthesis Cambridge Isotope Laboratories</i> 3 (2): 1-3	
48.		CRAIG, Suzanne B. et al. (September 1996) "The Impact of Physical Activity on Lipids, Lipoproteins, and Blood Pressure in Preadolescent Girls" <i>Pediatrics</i> 98 (3): 389-395	
49.		DAVIS, Ajuah et al. (July 2000) "Effect of Pinitol Treatment on Insulin Action in Subjects With Insulin Resistance" <i>Diabetes Care</i> 23 (7):1000-1005	
50.		DEEKS, Steven G. et al. (2002) "CD4+ T Cell Kinetics and Activation in Human Immunodeficiency Virus-Infected Patients Who Remain Viremic Despite Long-Term Treatment with Protease Inhibitor-Based Therapy" <i>Journal of Infectious Diseases</i> 185:315-323	
51.		DEKKER, Evelien et al. (1997) "Glucose Homeostasis in Children with Falciparum Malaria: Precursor Supply Limits Gluconeogenesis and Glucose Production" <i>J Clin Endocrinol Metabol</i> 82: 2514-2521	
52.		ETNIER, E.L. et al. (1984) "Metabolism of Organically Bound Tritium in Man" <i>Radiat. Res.</i> 100: 487-502	
53.		FAGERQUIST, Clifton K. et al. (1999) "Molecular Ion Fragmentation and Its	

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Sheet	4	of	10		

		Effects on Mass Isotopomer Abundance of Fatty Acid Methyl Estes Ionized By Electron Impact." <i>J Am Soc Mass Spectrom</i> 10: 430-439	
	54.	FAGERQUIST, Clifton K. et al. (2001) "Elimination of the Concentration Dependence in Mass Isotopomer Abundance Mass Spectrometry of Methyl Palmitate Using Metastable Atom Bombardment." <i>J Am Soc Mass Spectrom</i> 12:754-761	
	55.	GOZ, Barry (1978) "The Effects of Incorporation of 5-Halogenated Deoxyuridines into DNA of Eukaryotic Cells" <i>Macological Reviews</i> 29, (4): 249-272	
	56.	GYGI, Steven et al. (2000) "Using Mass Spectrometry for Quantitative Proteomics" <i>Proteomics: A Trends Guide</i> : 31-36	
	57.	HANSEN, Andrew P. et al. (1992) "A Practical Method for Uniform Isotopic Labeling of Recombinant Proteins in Mammalian Cells" <i>Biochemistry</i> 31 (51): 12713-12718.	
	58.	HELLERSTEIN, M. et al. (1999) "Directly Measured Kinetics of Circulating T Lymphocytes in Normal and HIV-1-Infected Humans" <i>Nature Medicine</i> 5 (1):83-89	
	59.	HELLERSTEIN, M. K. et al. (1992) "Mass Isotopomer Distribution Analysis: a Technique for Measuring Biosynthesis and Turnover of Polymers" <i>Am J Physiol</i> 263: E988-E1001	
	60.	HELLERSTEIN, M.K. et al. (1994) "Mass Isotopomer Distribution Analysis for Measuring Fluxes Through Intracellular Metabolic Pathways and Biosynthetic Rates of Polymers" <i>IFAC Modeling and Control in Biomedical Systems</i> , pages 353-359	
	61.	HELLERSTEIN, M.K. et al. (1997) "Hepatic Gluconeogenic Fluxes and Glycogen Turnover During Fasting in Humans." <i>J. Clin. Invest.</i> 100(5): 1305-1319	
	62.	HELLERSTEIN, Marc K. (1995) "Methods for Measurement of Fatty Acid and Cholesterol Metabolism" <i>Current Opinion in Lipidology</i> 6: 172-181	
	63.	HELLERSTEIN, Marc K. (1999) "Measurement of T-Cell Kinetics: Recent Methodologic Advances" <i>Trends Immunology Today</i> 20(10): 438-441	
	64.	HELLERSTEIN, Marc K. (1999) "The Changing Face of AIDS: Translators Needed" <i>Am J Clin Nutr</i> 70: 787-788	
	65.	HELLERSTEIN, Marc K. (2001) "No Common Energy: de Novo Lipogenesis as the Road Less Traveled" <i>Am J Clin Nutr</i> 74:707-708	
	66.	HELLERSTEIN, Marc K. (2002) "Carbohydrate-Induced Hypertriglyceridemia: Modifying Factors and Implications for Cardiovascular Risk" <i>Curr Opin Lipidol</i> 13: 33-40	
	67.	HELLERSTEIN, Marc K. (2003) "In Vivo Measurement of Fluxes Through	

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		Metabolic Pathways: The Missing Link in Functional Genomics and Pharmaceutical Research" <i>Annu. Rev. Nutr.</i> 23: 379-402	
68.		HELLERSTEIN, Marc K. et al. (1986) "Glycoconjugates as Noninvasive Probes of Intrahepatic Metabolism: Pathways of Glucose Entry into Compartmentalized Hepatic UDP-glucose Pools during Glycogen Accumulation." <i>Proceedings of the National Academy of Sciences of the United States of America</i> 83, Issue 18: 7044-7048	
69.		HELLERSTEIN, Marc K. et al. (1993) "Model for Measuring Absolute Rates of Hepatic de Novo Lipogenesis and Reesterification of Free Fatty Acids." <i>Am. J. Physiol.</i> 265: E814-E820	
70.		HELLERSTEIN, Marc K. et al. (1994) "Effects of Cigarette Smoking and its Cessation on Lipid Metabolism and Energy Expenditure in Heavy Smokers." <i>J. Clin. Invest.</i> 93: 265-272	
71.		HELLERSTEIN, Marc K. et al. (1997) "Altered Fluxes Responsible For Reduced Hepatic Glucose Production and Gluconeogenesis by Exogenous Glucose in Rats." <i>Am. J. Physiol.</i> 272: E163-E172	
72.		HELLERSTEIN, Marc K. et al. (1997) "Measurement of Hepatic Ra UDP-glucose in Vivo in Rats: Relation to Glycogen Deposition and Labeling Patterns" <i>Am. J. Physiol.</i> 272: E155-E162	
73.		HELLERSTEIN, Marc K. et al. (1999) "Mass Isotopomer Distribution Analysis at Eight Years: Theoretical, Analytic, and Experimental Considerations." <i>Am. J. Physiol.</i> 276: E1146-E1170	
74.		HELLERSTEIN, Marc K. et al. (2002) "Measurement of Synthesis Rates of Slow-turnover Proteins from 2H2O Incorporation into Non-essential Amino Acids (NEAA) and Application of Mass Isotopomer Distribution Analysis (MIDA)" <i>Faseb Journal Experimental Biology</i> 2002: Meeting Abstracts 16: A256	
75.		HOH, Rebecca et al. (1998) "De Novo Lipogenesis Predicts Short-Term Body-Composition Response by Bioelectrical Impedance Analysis to Oral Nutritional Supplements in HIV-Associated Wasting." <i>Am. J. Clin. Nutr.</i> 68:154-163	
76.		HUDGINS, Lisa C. et al. (2000) "Relationship Between Carbohydrate-Induced Hypertriglyceridemia and Fatty Synthesis in Lean and Obese Subjects." <i>J. Lipid Res.</i> 41:595-604	
77.		HUDGINS, Lisa Cooper et al. (1996) "Human Fatty Acid Synthesis is Stimulated by a Eucaloric Low Fat, High Carbohydrate Diet" <i>J. Clin. Invest.</i> 97(9): 2081-2091	
78.		HUMPHREY, Thomas J. et al. (1975) "A New Method for the Measurement of Protein Turnover" <i>Biochem. J.</i> 148: 119-127	

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Sheet	6	of	10	Attorney Docket Number	416272003900

79.	HUMPHREY, Thomas J. et al. (1976) "A Sensitive Method for Measuring Protein Turnover Based on the Measurement of 2-3H-labeled Amino Acids in Proteins" <i>Biochem. J.</i> 156: 561-568
80.	JENNINGS, Graham et al. (July 1999) "The Use of Infrared Spectrophotometry for Measuring Body Water Spaces." <i>Clinical Chemistry</i> 45(7): 1077-1081
81.	JONES, Peter J.H. et al. (1994). "Interaction of Dietary Fat Saturation and Cholesterol Level on Cholesterol Synthesis Measured Using Deuterium Incorporation" <i>Journal of Lipid Research</i> 35: 1093-1101
82.	JUNG, Hye Rim. et al. (1999) "Metabolic Adaptations to Dietary Fat Malabsorption in Chylomicron-Deficient Mice" <i>Biochem. J.</i> 343: 473-478
83.	JUNGAS, Robert L. (1698) "Fatty Acid Synthesis in Adipose Tissue Incubated in Tritiated Water" <i>Biochemistry</i> 7(10): 3708-3717
84.	KATZ, J. et al. (1976) "Futile Cycles in the Metabolism of Glucose" <i>Curr Top Cell Regul</i> 10: 237-89
85.	KELLEHER, Joanne K. et al. (1992) "Model Equations for Condensation Biosynthesis Using Stable Isotopes and Radioisotopes" <i>Am. J. Physiol.</i> 262: E118-E125
86.	KHAIRALLAH, Edward A. et al. (1976) "Mortimore. Assessment of Protein Turnover in Perfused Rat Liver: Evidence for Amino Acid Compartmentation from Differential Labeling of Free and tRNA-bound Valine" <i>J Biol Chem</i> 251(5): 1375-1384
87.	KIM, J. et al. (2000) "A New Stable Isotope-Mass Spectrometric (MS) Method to Measure Proliferation Rates of Colon Epithelial Cells" <i>Faseb Journal</i> 14(4): A718
88.	LAMMERT, Ole et al. (2000) "Effects of Isoenergetic Overfeeding of Either Carbohydrate or Fat in Young Men" <i>British Journal of Nutrition</i> 84:233-245
89.	LEE, Chong Do et al. (1999) "Cardiorespiratory Fitness, Body Composition, and All-Cause and Cardiovascular Disease Mortality in Men 1-3" <i>Am J Clin Nutr</i> 69:373-380
90.	LEUNG, Gordon K. et al. (2000) "A Deficiency of Microsomal Triglyceride Transfer Protein Reduces Apolipoprotein B Secretion" <i>The Journal of Biological Chemistry</i> 275(11):7515-7520
91.	LEWANCZUK, Richard Z. et al. (2004) "Comparison of the [13 C] Glucose Breath Test to the Hyperinsulinemic-Euglycemic Clamp When Determining Insulin Resistance" <i>Diabetes Care</i> 27(2):441-447
92.	LIPKIN, Martin et al. (1963) "Cell Proliferation Kinetics in the Gastrointestinal Tract of Man. I. Cell Renewal in Colon and Rectum" <i>Journal of Clinical Investigations</i> 42(6):767-776

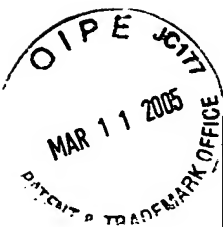
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				Examiner Name	Not Yet Assigned
Sheet	7	of	10	Attorney Docket Number	416272003900

93.	MACALLAN, Derek C. et al. (1998) "Measurement of Cell Proliferation by Labeling of DNA with Stable Isotope-Labeled Glucose: Studies in Vitro, in Animals, and in Humans" <i>Proc. Natl. Acad. Sci.</i> 95: 708-713
94.	MAENTAUSTA, O. et al. (1979) "Radioimmunoassay of Conjugated Cholic Acid, Chenodeoxycholic Acid, and Deoxycholic Acid from Human Serum, with Use of 125I-Labeled Ligands" <i>Clin. Chem.</i> 25(2): 264-268
95.	MATHUR-DE VRÉ, R. et al. (1984) "Molecular Aspects of Tritiated Water and Natural Water in Radiation Biology" <i>Prog. Biophys. Molec. Biol.</i> 43: 161-193
96.	MCCUNE, Joseph M. et al. (2000) "Factors Influencing T-Cell Turnover in HIV-1-Seropositive Patients" <i>J. Clin. Invest.</i> 105:R1-R8
97.	MEWISSEN, D.J. et al. (1977) "Comparative Incorporation of Tritium from Tritiated Water Versus Tritiated Thymidine, Uridine or Leucine" <i>Curr Top Rad Res Quart</i> 12: 225-254
98.	MISELL, L. et al. (2000) "A new in Vivo Stable Isotope Method for Measuring Mammary Epithelial Cell Proliferation" <i>Faseb Journal Experimental Biology</i> 2000 14(4), Meeting Abstract 550.5: A786
99.	MOHRI, Hiroshi et al. (2001) "Increased Turnover of T Lymphocytes in HIV-1 Infection and its Reduction by Antiretroviral Therapy." <i>J. Exp. Med.</i> 194(9): 1277-1287
100.	MORRIS, Rebecca J. et al. (1997) "Evidence that a Slowly Cycling Subpopulation of Adult Murine Epidermal Cells Retains Carcinogen" <i>Cancer Research</i> 46: 3061-3066
101.	MORRIS, Rebecca J. et al. (1997) "Evidence that Cutaneous Carcinogen-initiated Epithelial Cells from Mice are Quiescent Rather than Actively Cycling" <i>Cancer Research</i> 57:3436-3443
102.	NEESE, R. A. et al. (1993) "Measurement of Endogenous Synthesis of Plasma Cholesterol in Rats and Humans Using MIDA" <i>Am. J. Physiol.</i> 264: E139-E147
103.	NEESE, Richard A. et al. (1995) "Gluconeogenesis and Intrahepatic Triose Phosphate Flux in Response to Fasting or Substrate Loads" <i>Journal of Biological Chemistry</i> 270(24): 14452-14463
104.	NEESE, Richard A. et al. (2001) "Advances in the Stable Isotope-Mass Spectrometric Measurement of DNA Synthesis and Cell Proliferation" <i>Analytical Biochemistry</i> 298(2): 189-195
105.	ONG, Shao-En et al. (2002) "Stable Isotope Labeling by Amino Acids in Cell Culture, SILAC, as a Simple and Accurate Approach to Expression Proteomics" <i>Molecular and Cellular Proteomics</i> 1: 376-386
106.	PANTALEO, Giuseppe (1999) "Unraveling the Strands of HIV's Web"

Examiner Signature		Date Considered	
--------------------	--	-----------------	--



Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
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Sheet	8	of	10	Attorney Docket Number	416272003900

		<i>Nature Medicine</i> 5(1): 27-28	
107.	PAPAGEORGOPOULOS, Christina et al. (1999) "Measuring Protein Synthesis by Mass Isotopomer Distribution Analysis (MIDA)" <i>Analytical Biochemistry</i> 267: 1-16		
108.	PARKS, Elizabeth J. et al. (1999) "Effects of a Low-Fat, High-Carbohydrate Diet on VLDL-Triglyceride Assembly, Production, and Clearance" <i>J. Clin. Invest.</i> 104(8): 1087-1096		
109.	PARKS, Elizabeth J. et al. (2000) "Carbohydrate-induced Hypertriacylglycerolemia: Historical Perspective and Review of Biological Mechanisms" <i>Am. J. Nutr.</i> 71: 412-433		
110.	PARKS, Elizabeth J. et al. (2000) "Dependence of Plasma a-Tocopherol Flux on Very Low-Density Triglyceride Clearance in Humans" <i>Free Radical Biology & Medicine</i> 29(11): 1151-1159		
111.	PASA-TOLIC, Ljiljana et al. (1999) "High Throughput Proteome-Wide Precision Measurements of Protein expression Using Mass Spectrometry" <i>J. Am. Chem. Soc.</i> 121: 7949-7950		
112.	PATTERSON, Bruce W. (1993) "Concentration Dependence of Methyl-Palmitate Isotope Ratios by Electron Impact Ionization Gas Chromatography/Mass Spectrometry" <i>Biol. Mass Spectrom.</i> 22: 481-486		
113.	POZHARISSKI, K.M. et al. (1980) "Study of Kinetics of Epithelial Cell Populations in Normal Tissues of the Rat's Intestines and in Carcinogenesis." <i>Exp. Path., Bd.</i> 18:387-406		
114.	PREVIS, Stephen F. et al. (2001) "Estimation of Protein Turnover In Vivo Using D2O" <i>Diabetes Abstract Book, 61st Scientific Sessions</i> 50[Supplement 2]: A301		
115.	ROBERTS, S.B. (1989) "Use of the Doubly Labeled Water Method for Measurement of Energy Expenditure, Total Body Water, Water Intake, and Metabolizable Energy Intake in Humans and Small Animals" <i>Can. J. Physiol. Pharmacol.</i> 67(10): 1190-1198		
116.	ROBIN, Eugene D. et al. (1988) "Mitochondria DNA Molecules and Virtual Number of Mitochondria per Cell in Mammalian Cells" <i>Journal of Cellular Physiology</i> 136:507-513		
117.	ROCHA, B. et al. (1990) "Accumulation of Bromodeoxyuridine-Labelled Cells in Central and Peripheral Lymphoid Organs: Minimal Estimates of Production and Turnover Rates of Mature Lymphocytes" <i>Eur. J. Immunol.</i> 20:1697-1708		
118.	RODA, Aldo et al. (1980) "Results with Six 'Kit' Radioimmunoassays for Primary Bile Acids in Human Serum Intercompared" <i>Clin. Chem.</i> 26(12): 1677-1682		

Examiner Signature		Date Considered	
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				Attorney Docket Number	416272003900
Sheet	9	of	10		

119.	SCHWARZ, Jean-Marc et al. (1995) "Short-Term Alterations in Carbohydrate Energy Intake In Humans" <i>J. Clin. Invest.</i> 96: 2735-2743
120.	SHEVCHENKO, Andrej et al. (1997) "Rapid 'de Novo' Peptide Sequencing by a Combination of Nanoelectrospray, Isotopic Labeling and a Quadrupole/Time-of-flight Mass Spectrometer" <i>Rapid Commun. Mass Spectrom.</i> 11: 1015-1024
121.	SILER, Scott Q. et al. (1998) "The Inhibition of Gluconeogenesis Following Alcohol in Humans" <i>Am. J. Physiol.</i> 275: E897-E907
122.	SILER, Scott Q. et al. (1998) "VLDL-Triglyceride Production After Alcohol Ingestion, Studied Using [2-13C1] Glycerol" <i>J. Lipid Res.</i> 39: 2319-2328
123.	SUNTER, J.P. et al. (1978) "Cell Population Kinetics in the Epithelium of the Colon of the Male Rat." <i>Virchows Archiv. B Cell Path.</i> 26: 275-287
124.	TEIXEIRA, Lucil�ia et al. (2001) "Poor CD4 T Cell Restoration After Suppression of HIV-1 Replication May Reflect Lower Thymic Function" <i>AIDS</i> 15(14):1749-1756
125.	TINT, G.S. et al. (1974) "Transformation of 5�-cholest-7-en-3�-ol to Cholesterol and Cholestanol in Cerebrotendinous Xanthomatosis" <i>Journal of Lipid Research</i> 15: 256-262
126.	TRAPPE, T. A. et al. (2002) "Effect of Ibuprofen and Acetaminophen on Postexercise Muscle Protein Synthesis" <i>Am J Physiol Endocrinol Metab</i> 282: E551-E556
127.	TURNER, Scott M. et al. (2002) "Measurement of Triglyceride (TG) Synthesis in Vivo 2H2O Incorporation into TG-Glycerol and Application of Mass Isotopomer Distribution Analysis (MIDA)." <i>Experimental Biology 2002</i> 16[Meeting Abstract 361.9]: A400
128.	VAN HINSBERGH, V.W.M. et al. (1978) "Palmitate Oxidation by Rat Skeletal Muscle Mitochondria" <i>Archives of Biochemistry and Biophysics</i> 190(2): 762-771
129.	VAN LOAN, Marta D. et al. (1999) "Monitoring Changes in Fat-Free Mass in HIV-Positive Men With Hypotestosteronemia and AIDS Wasting Syndrome Treated With Gonadal Hormone Replacement Therapy" <i>AIDS</i> 13:241-248
130.	VEENSTRA, Timothy D. et al. (2000) "Proteome Analysis Using Selective Incorporation of Isotopically Labeled Amino Acids" <i>J. Am. Soc. Mass. Spectrom.</i> 11: 78-82
131.	VEERKAMP, Jacques H. et al. (1986) "14CO2 Production Is No Adequate Measure of [14C]Fatty Acid Oxidation" <i>Biochemical Medicine and Metabolic Biology</i> 35: 248-259
132.	V�NIANT, Murielle M. et al. (2000) "Defining the Atherogenicity of Large and Small Lipoproteins Containing Apolipoproteins B100" <i>J. Clin. Invest.</i>

Examiner Signature		Date Considered	
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ALTERNATIVE TO PTO/SB/08a/b (06-03)

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Sheet	10	of	10	Attorney Docket Number	416272003900

		106(12): 1501-1510	
	133.	WANG, Wei et al. (2000) "Effects of Nicotinic Acid on Fatty Acid Kinetics, Fuel Selection, and Pathways of Glucose Production in Women." <i>Am. J. Physiol. Endocrinol. Metab.</i> 279: E50-E59	
	134.	WATERLOW, J.C. (1980) "Protein Turnover in the Whole Animal" <i>Invest. Cell Pathol.</i> 3: 107-119	
	135.	WINETT, Richard et al. (2000) "Exercise Regimens for Men With HIV." <i>JAMA</i> 284(2): 175-6	
	136.	WOLF, George (1995) "The Effect of Fasting and Fructose and Glucose Infusion on Gluconeogenesis and Triose Phosphate Flux in Rats in Vivo" <i>Nutrition Reviews</i> 53(10): 299-302	

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